

Certificate of Analysis

Standard Reference Material 975

Isotopic Standard for Chlorine

Absolute Abundance Ratio, Cl-35/Cl-37 -----	3.1272	+ 0.0079 - 0.0082
Chlorine-35, atom percent -----	75.770	+ 0.044 - 0.046
Chlorine-37, atom percent -----	24.229	+ 0.046 - 0.044

The preparation furnished is a commercial sample of sodium chloride, formerly distributed as NBS Isotopic Reference Sample No. 105. Measurements are by triple filament mass spectrometry, using mixtures of known composition prepared from high-purity separated isotopes as comparison standards. Overall limits of error are based on 95 percent confidence limits for the mean and on allowances for the effects of known sources of possible systematic error. Details of the applications and measurements are published by W. R. Shields, T. J. Murphy, E. L. Garner, and V. H. Dibelers, *JACS* 84, 1519-1522 (1962).

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